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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 4

Complete if Known

Application Number	10/680,639
Filing Date	October 7, 2003
First Named Inventor	David C. Dunand
Art Unit	1742
Examiner Name	Ngoclan Thi Mai
Attorney Docket Number	6513-DIV

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
N-M		4,411,712	10-25-1983	Marancik	
		3,894,850	07-15-1975	Kovalchuk et al.	
		4,855,263	08-08-1989	Kawasaki et al.	
		RE28,983	09-28-1976	Sindzingre et al.	
		5,511,603	04-30-1996	Brown et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
N-M		WO 02/064859 A2	08-22-2002	Finnemore et al.		

Examiner Signature	<i>Ngoclan Thi Mai</i>	Date Considered	7/1/04
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Sheet 2 of 4

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
mm		ZHU, Y. et al., "Microstructure and Structural Defects in MgB ₂ Superconductor," <i>Physica C: Superconductivity and Its Applications</i> , August 2001, 356(4), p. 239-53 (Abstract only).	
		GIUNCHI, GIOVANNI, "High Density MgB ₂ Obtained by Reactive Liquid Mg Infiltration," Los Alamos National Laboratory, Preprint Archive, Condensed Matter, 1-8, arXiv:cond-mat/0208040, 2002.	
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		WILSON, ET AL. "Reaction of magnesium boride particles in mechanically alloyed Ti-4wt%MgB ₂ ", <i>Journal of Materials Science</i> , 2001, p. 67-75, Vol. 36, Kluwer Academic Publishers.	
		SHARONI, ET AL. "Spatial variations of the superconductor gap structure in MgB ₂ /Al composite", <i>Institute of Physics Publishing</i> , April 26, 2001, p. L503-L508, Matter 13, IOP Publishing Ltd.	
		SOLTANIAN, ET AL. "High-transport critical current density above 30 K in pure Fe-clad MgB ₂ tape", <i>Physica C</i> , 2001, p. 84-90, Elsevier Science B.V.	
		WANG, ET AL. "Very fast formation of superconducting MgB ₂ /Fe wires with high J _c ", <i>Physica C</i> , 2001, p. 149-155, Elsevier Science B.V.	
		KITAGUCHI, ET AL. "Strain effect in MgB ₂ /stainless steel superconducting tape", <i>Physica C</i> , 2001, p. 198-201, Elsevier Science B.V.	
		SONG, ET AL. "Single-filament composite MgB ₂ /stainless-steel ribbons by powder-in-tube process", <i>Physica C</i> , 2002, p. 21-26, Elsevier Science B.V.	
		GOLDACKER, ET AL. "Influence of mechanical reinforcement of MgB ₂ wires on the superconducting properties", <i>Physica C</i> , 2002, p. 889-893, Elsevier Science B.V.	
mm		TACHIKAWA, ET AL. "Effects of metal powder addition on the critical current in MgB ₂ tapes", <i>Physica C</i> , 2002, p. 108-112, Elsevier Science B.V.	

Examiner Signature	Ngoclan Mai	Date Considered	7-1-04
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Use as many sheets as necessary)		Attorney Docket Number	6513-DIV
Sheet	3	of	4

NON PATENT LITERATURE DOCUMENTS			
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M-m		JIN, ET AL. "High critical currents in iron-clad superconducting MgB ₂ wires", <i>Nature</i> , May 31, 2001, p. 563-565, Macmillan Magazines Ltd.	
		CANFIELD, ET AL. "Superconductivity in Dense MgB ₂ Wires", <i>Physical Review Letters</i> , March 12, 2001, p. 2423-2426, Vol. 86, Number 11, The American Physical Society 2001.	
		MARTINEZ, ET AL. "Study of Ag and Cu/ MgB ₂ powder-in-tube composite wires fabricated by <i>in situ</i> reaction at low temperatures", <i>Superconductor Science and Technology</i> , 2002, p. 1043-1047, IOP Publishing Ltd.	
		PACHLA, ET AL. "Structural inhomogeneity of superconducting <i>ex situ</i> MgB ₂ /Cu wires made by the powder-in-tube technique", <i>Superconductor Science and Technology</i> , 2002, p. 1281-1287, IOP Publishing Ltd.	
		KOVAC, ET AL. "Structure, grain connectivity and pinning of as-deformed commercial MgB ₂ powder in Cu and Fe/Cu sheaths", <i>Superconductor Science and Technology</i> , 2002, p. 1127-1132, IOP Publishing Ltd.	
		EISTERER, ET AL. "Enhanced transport currents in Cu-sheathed MgB ₂ wires", <i>Superconductor Science and Technology</i> , 2002, p. 1088-1091, IOP Publishing Ltd.	
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		SONG, ET AL. "Anisotropic grain morphology, crystallographic texture and their implications for flux pinning mechanisms in MgB ₂ pellets, filaments and thin films", <i>Superconductor Science and Technology</i> , 2002, p. 511-518, IOP Publishing Ltd.	
		WU, ET AL. "Superconducting MgB ₂ Nanowires", <i>Advanced Materials</i> , October 2, 2001, Vol. 13, No. 19, p. 1487-1489, WILEY-VCH Verlag GmbH.	
		CUNNINGHAM, ET AL. "Synthesis and processing of MgB ₂ powders and wires", <i>Physica C</i> , 2001, p. 5-10, Elsevier Science B.V.	
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nm		UNKNOWN. "Transactions of the Indian", <i>Institute of Metals</i> , December 1997, p. 665-674.	
		GLOWACKI, ET AL. "Superconductivity of powder-in-tube MgB ₂ wires", <i>Superconductor Science & Technology</i> , April 2001, p. 193-199.	
		ZHANG, ET AL. "Structure and superconductivity of Mg(B1-xCx)(2) compounds", <i>Chinese Physics</i> , April 2001, p. 335-337.	
		GOLDACKER, ET AL. "High transport currents in mechanically reinforced MgB ₂ wires", <i>Superconductor Science and Technology</i> , 2001, p. 787-793, IOP Publishing Ltd.	
		FUJII, ET AL. "Influence of MgB ₂ powder quality on the transport properties of Cu-sheathed MgB ₂ tapes", <i>Physica C</i> , 2001, p. 237-242, Elsevier Science B.V.	
		ZHOU, ET AL. "Single- and multi-filamentary Fe-sheathed MgB ₂ wires", <i>Physica C</i> , 2002, p. 349-354, Elsevier Science B.V.	
		KUMAKURA, ET AL. "Microstructure and superconducting properties of powder-in-tube processed MgB ₂ tapes", <i>Physica C</i> , 2002, p. 93-97, Elsevier Science B.V.	
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		MORTENSEN, ET AL., Solidification processing of metal matrix, International Materials Reviews, Volume 37, No. 3, 1992, Pages 101-128.	
nm			

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